

What is claimed is:

1           1. A method of treating a subject having a disorder  
2 associated with increased extracellular Fas ligand titers,  
3 the method comprising administering to the subject a  
4 composition comprising anti-Fas antibodies in an amount  
5 effective to inhibit binding of Fas ligands to Fas receptors  
6 in the subject.

1           2. The method of claim 1, wherein the disorder is  
2 toxic epidermal necrolysis (Lyell's Syndrome), graft-versus-  
3 host disease (GVHD), hepatitis, fulminant hepatitis,  
4 autoimmune thyroiditis (Hashimoto's thyroiditis), malignant  
5 tumor illnesses (e.g., melanoma), or HIV.

1           3. The method of claim 1, wherein the disorder is  
2 toxic epidermal necrolysis.

1           4. The method of claim 1, wherein the disorder is graft-  
2 versus-host disease.

1           5. The method of claim 1, wherein the composition  
2 comprises an intravenous immunoglobulin (IVIG) mixture.

1           6. The method of claim 5, wherein the IVIG is of  
2 human origin.

1           7. The method of claim 5, wherein the composition  
2 contains a level of anti-Fas antibodies sufficient to  
3 inhibit at least 40 percent of FasL binding to Fas receptor.

1           8. The method of claim 5, wherein the composition  
2 contains a level of anti-Fas antibodies sufficient to  
3 inhibit at least 50 percent of FasL binding to Fas receptor.

1           9. The method of claim 5, wherein the composition  
2 is administered at a dosage of at least 0.1 g/kg/day.

1           10. The method of claim 5, wherein the composition  
2 is administered by infusion.

1           11. The method of claim 10, wherein the composition  
2 is administered at a dosage of at least 0.1 g/kg/day.

1           12. The method of claim 4, wherein the composition  
2 is administered by infusion at a dosage of at least 0.75  
3 g/kg/day.

1           13. A method of treating a subject having graft-versus-host-  
2 disease (GVHD), the method comprising administering to the  
3 subject a composition comprising anti-Fas antibodies in an  
4 amount effective to inhibit binding of Fas ligands to Fas  
5 receptors in the subject.

1           14. The method of claim 13, wherein the composition  
2 comprises an intravenous immunoglobulin (IVIG) mixture.

1           15. The method of claim 14, wherein the IVIG is of  
2 human origin.

1           16. The method of claim 14, wherein the IVIG  
2 contains an anti-Fas antibody at a concentration of at least  
3 0.1 mg/ml.

1           17. The method of claim 14, wherein the IVIG  
2 contains an anti-Fas antibody at a concentration of at least  
3 8 mg/ml.

1           18. The method of claim 13, wherein the composition  
2 comprises an anti-Fas antibody and is administered at a  
3 dosage of at least 0.1 mg/kg/day for at least two days.

1           19. The method of claim 14, wherein the IVIG is  
2 administered at a dosage of least 0.1 g/kg/day for at least  
3 two days.

1           20. The method of claim 14, wherein the IVIG is  
2 administered by infusion at a dosage of 0.75 g/kg/day for  
3 four consecutive days.

1           21. A method for determining the prophylactic  
2 suitability and quality control of a composition for use in  
3 treating a disorder associated with increased extracellular  
4 Fas ligand titers, the method comprising  
5           (a) incubating the composition with a Fas-Fc fusion  
6 protein in a solution;  
7           (b) adding to the solution a labelled Fas ligand;  
8 and  
9           (c) detecting the amount of Fas ligand bound to the Fas-  
10 Fc fusion protein as an indication of the presence of anti-  
11 Fas antibodies in the composition, wherein an amount of anti-  
12 Fas antibodies in the composition sufficient to inhibit  
13 binding of Fas ligand to Fas receptor indicates that the  
14 composition is suitable for use in treating a disorder  
15 associated with increased extracellular Fas ligand titers.

1           22. The method of claim 21, wherein the composition  
2 is an intravenous immunoglobulin (IVIG) mixture.

1           23. The method of claim 21, wherein the percentage  
2 of binding inhibition is at least 40 percent.

1           24. The method of claim 21, wherein the amount of  
2 bound Fas ligand is determined chemically or physically.

1           25. A method for determining the prophylactic  
2 suitability and quality control of a composition for use in  
3 treating a disorder associated with increased extracellular  
4 Fas ligand titers, the method comprising  
5           (a) incubating Fas sensitive cells with the  
6 composition in a solution;  
7           (b) adding soluble Fas ligand to the solution; and  
8           (c) determining the percentage of Fas sensitive  
9 cells in which apoptosis is inhibited compared to cells not  
10 incubated with the composition, wherein a composition that  
11 inhibits apoptosis of Fas sensitive cells is suitable for  
12 use in treating a disorder associated with increased  
13 extracellular Fas ligand titers.

1           26. The method of claim 25, wherein the composition  
2 is an intravenous immunoglobulin (IVIG) mixture.

1           27. The method of claim 25, wherein the percentage  
2 of inhibition of Fas sensitive cell apoptosis is at least 40  
3 percent.

1           28. A method for determining the prophylactic  
2 suitability and quality control of a composition for use in  
3 treating a disorder associated with increased extracellular  
4 Fas ligand titers, the method comprising  
5           (a) combining Fas receptors with the composition;  
6           (b) adding labelled secondary antibodies that bind  
7 specifically to anti-Fas antibodies; and  
8           (c) detecting the labelled secondary antibodies as  
9 an indication of the presence of anti-Fas antibodies bound  
10 to the Fas receptors, wherein the presence of anti-Fas  
11 antibodies in the composition indicates that the composition  
12 is suitable for use in treating a disorder associated with  
13 increased extracellular Fas ligand titers.

1           29. The method of claim 28, wherein the Fas  
2 receptors and the composition are combined in a Western blot  
3 technique.

1           30. The method of claim 28, wherein the composition  
2 is an intravenous immunoglobulin (IVIG) mixture.

1           31. A method of preparing a drug to treat disorders  
2 associated with increased extracellular Fas ligand titers,  
3 the method comprising  
4           (a) fractionating a composition;  
5           (b) examining each fraction to determine the  
6 presence of anti-Fas antibodies;  
7           (c) isolating each fraction that contains anti-Fas  
8 antibodies; and  
9           (d) concentrating the isolated fractions for use as  
10 the drug.

1           32. The method of claim 31, wherein the composition  
2 is an intravenous immunoglobulin (IVIG) mixture.

1           33. The method of claim 32, further comprising  
2 (e) purifying and isolating the anti-Fas antibodies  
3 in the isolated fractions by affinity chromatography.

1           34. The method of claim 33, wherein the affinity  
2 chromatography comprises the use of column chromatography  
3 using Fas fusion proteins bound to the column.

1           35. The method of claim 33, wherein the affinity  
2 chromatography comprises the use of one or more  
3 chromatographic columns, each column having linked thereto a  
4 specific amino acid sequence of the Fas fusion protein that  
5 corresponds to a specific Fas antibody epitope, wherein all  
6 Fas antibody epitopes are bound to the one or more columns  
7 and are then eluted.

1           36. A composition for the treatment of disorders  
2 associated with increased extracellular Fas ligand titers,  
3 the composition comprising anti-Fas antibodies that inhibit  
4 binding of Fas ligand to the Fas receptor.

1           37. The composition of claim 35, wherein the anti-  
2 Fas antibodies are of non-human origin and are humanized.

1           38. The composition of claim 35, wherein the  
2 composition comprises an intravenous immunoglobulin (IVIG)  
3 mixture from a human.